

SAF-RC-040
300 Area D&D Waste Characterization
Sampling - Other Solid
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Tim Lee L1-07

KW 9/11/2007
INITIAL/DATE

COMMENTS:

SDG 07-A-4919 SAF-RC-040

Rad only ☒ Chem only Rad & Chem

☒ Complete Partial

Sample Location/Waste Site: 337B Building

RECEIVED
SEP 17 2007
EDMC



SUBMITTED TO:

Joan Kessner
Washington Closure Hanford
2620 Fermi Avenue, MSIN H4-21
Richland, WA 99354

REFERENCE DATA:

Client Sample No.:	J15HV4 through J15HW0
P.O. No.:	Not Available
Sample Location:	337B Building
Sample Type:	Bulk
Method Reference:	EPA-600/R-93/116
DCL Set ID No.:	07-A-4919
DCL Sample ID No.:	07-28496 through 07-28502
Sample Receipt Date:	8/31/07
Analysis Date:	9/10/07

We certify that the following samples were prepared and analyzed by Polarized Light Microscopy for asbestos and other fibrous constituents using EPA-600/R-93/116. The samples were acceptable upon receipt except where noted. The samples were examined under a stereomicroscope in a laboratory fume hood for general composition and phase separation. If needed, portions of the sample were removed and ground with a mortar and pestle before being mounted on a glass microscope slide. Mountings of representative portions of the material are prepared in one or more appropriate refractive index liquids (1.550, 1.605, 1.680) and examined by Polarized Light Microscopy*. Estimates of concentration are made on an area basis. The results of the analysis apply only to the materials analyzed and are summarized on the attached bulk asbestos analysis data sheets. DataChem Laboratories will dispose of all bulk samples after 60 days unless other arrangements are made.


Shawn Smythe
Analyst


for Anna Marie Ristich
Reviewer

*Floor tiles, decorative paints, joint compounds, and cement materials require additional treatment in order to evaluate the concentration of small asbestos fibers bound in the material. Some samples may contain fibers that are not visible by PLM and can only be detected by electron microscopy techniques. Floor tiles are analyzed as homogeneous materials if insufficient mastic is present or if phases have been cross contaminated.

DataChem Laboratories NVLAP Lab ID: 101917. Laboratory accreditation by the National Institute of Standards and Technology does not in any way constitute approval or endorsement by NVLAP, NIST, or any agency of the federal government.

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4388 GLENDALE-MILFORD ROAD
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WEST COAST OFFICE
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NOVATO, CALIFORNIA 94945
800 280-8071, FAX 415 893-9468

9/10/07

**DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report**

Client: Washington Closure Hanford
Location: 337B Building
Set ID: 07-A-4919

Client Sample ID:	J15HV4	J15HV5	J15HV6	J15HV7	J15HV8
DCL Sample ID:	07-28496	07-28497	07-28498	07-28499	07-28500
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Homog.	Homog.	Homog.	Homog.	Homog.
Color:	Grey	Grey	Grey	Grey	Grey
Texture:	Pwdry/Fbrs	Pwdry/Fbrs	Fibrous	Fbrs/Pwdry	Pwdry/Fbrs
Description:	Material	Material	Material	Material	Material
Analysis:	PLM	PLM	PLM	PLM	PLM
Asbestiform Minerals					
% Chrysotile:	>20 ≤ 30	>20 ≤ 30	Trace	>40 ≤ 50	>20 ≤ 30
% Amosite:					
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	>20 ≤ 30	>20 ≤ 30	Trace	>40 ≤ 50	>20 ≤ 30
Other Materials					
% Cellulose:					
% Fiberglass:			>70 ≤ 80		
% Other Fibers:				>5 ≤ 10	
% Resin/Binder:					
% Non Fibrous:	>60 ≤ 70	>60 ≤ 70	>10 ≤ 20	>30 ≤ 400	>60 ≤ 70

ND = None Detected Trace = <1%

Special Prep Procedures: None.

*Notes: P. O. #: Not Available.


Shawn Smythe
Microscopist

All values are in area percent by visual estimate. The Federal Register Vol. 55 No. 224 Tuesday Nov. 20 1990 Rules and Regulations states "... If the asbestos content is estimated to be less than 10% by a method other than point counting,... (the analysis) be repeated using the point counting technique by PLM." Any of the above samples can be reanalyzed by point counting at the client's request. Wherever possible, separate phases are analyzed and reported individually.

9/10/07

**DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report**


Client: Washington Closure Hanford
Location: 337B Building
Set ID: 07-A-4919

Client Sample ID:	J15HV9	J15HW0
DCL Sample ID:	07-28501	07-28502
Macroscopic Examination		
Accepted/Rejected:	Accepted	Accepted
Homogeneity:	Homog.	Homog.
Color:	Grey	Grey
Texture:	Pwdry/Fbrs	Crmby/Fbrs
Description:	Material	Material
Analysis:	PLM	PLM
Asbestiform Minerals		
% Chrysotile:	>20 ≤ 30	
% Amosite:		
% Crocidolite:		
% Tremolite - Actinolite:		
% Anthophyllite:		
% Total Asbestos:	>20 ≤ 30	ND
Other Materials		
% Cellulose:		>5 ≤ 10
% Fiberglass:		>20 ≤ 30
% Other Fibers:		
% Resin/Binder:		
% Non Fibrous:	>60 ≤ 70	>50 ≤ 60

ND = None Detected Trace = <1%

Special Prep Procedures: None.

*Notes: P. O. #: Not Available.


Shawn Smythe
Microscopist

All values are in area percent by visual estimate. The Federal Register Vol. 55 No. 224 Tuesday Nov. 20 1990 Rules and Regulations states "... If the asbestos content is estimated to be less than 10% by a method other than point counting,... (the analysis) be repeated using the point counting technique by PLM." Any of the above samples can be reanalyzed by point counting at the client's request. Wherever possible, separate phases are analyzed and reported individually.

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-040-326		Page 1 of 2		
Collector Tim Lee		Company Contact Tim Lee		Telephone No. 627-8639		Project Coordinator KESSNER, JH		Price Code 9K Data Turnaround 7 Days		
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soli		Sampling Location 337B Building		SAF No. RC-040						
Ice Chest No. FEDEX BOX		Field Logbook No. EL-1603-2		COA See below		Method of Shipment Federal Express				
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. A 070417		Bill of Lading/Air Bill No. See OSPC						
POSSIBLE SAMPLE HAZARDS/REMARKS Asbestos Special Handling and/or Storage		Preservation	None							
		Type of Container	G/P							
		No. of Container(s)	1							
		Volume	5g							
SAMPLE ANALYSIS 07-A-4919		Asbestos-BULK-EPA								
Sample No. 07	Matrix *	Sample Date	Sample Time							
J15HV4 29496	OTHER SOLID	8-29-07	900	X						
J15HV5 29497	OTHER SOLID	8-29-07	905	X						
J15HV6 29498	OTHER SOLID	8-29-07	910	X						
J15HV7 29499	OTHER SOLID	8-29-07	915	X						
J15HV8 29500	OTHER SOLID	8-29-07	920	X						
CHAIN OF POSSESSION		Sign/Print Names		SPECIAL INSTRUCTIONS				Matrix *		
Relinquished By/Removed From TA - ee		Date/Time 8-29-07/1000		Received By/Stored In 3728 ZC		Date/Time 8-29-07/1000		Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2F00 Sampling COA - R32700 J451 sampler unavailable to relinquish samples from 3728 Ref # 20 3728 Custodian removed samples for shipping on 8/30/07		S=Soil SE=Sediment SO=Solid SL=Sludge W = Water O=Oil A=Air DS=Drown Solids DL=Drown Liquids T=Transit WI=Wipe L=Liquid V=Vegetation X=Other
Relinquished By/Removed From 3728 ZB		Date/Time 8-30-07		Received By/Stored In 0830 BGT Singleton		Date/Time 8-30-07 0830				
Relinquished By/Removed From BGT Singleton		Date/Time 08-30-07 1900		Received By/Stored In FED EX		Date/Time 8/31/07 1025				
Relinquished By/Removed From FedEx		Date/Time 8/31/07 1025		Received By/Stored In		Date/Time				
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time				
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time				
LABORATORY SECTION	Received By [Signature]		Title		Date/Time 8/31/07/1025					
FINAL SAMPLE DISPOSITION	Disposal Method		Disposed By		Date/Time					

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-040-326		Page 2 of 2			
Collector Tim Lee		Company Contact Tim Lee		Telephone No. 627-8639		Project Coordinator KESSNER, JH		Price Code 9K Data Turnaround 7 Days			
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soli		Sampling Location 337B Building		SAF No. RC-040							
Ice Chest No. FED EX BOX		Field Logbook No. EL-1603-2		COA See below		Method of Shipment Federal Express					
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. A070417		Bill of Lading/Air Bill No. See OSPC							
POSSIBLE SAMPLE HAZARDS/REMARKS Asbestos Special Handling and/or Storage		Preservation	None								
		Type of Container	G/P								
		No. of Container(s)	1								
		Volume	5g								
SAMPLE ANALYSIS <div style="font-size: 2em; text-align: center;">4919</div>		Asbestos-BULK-EPA									
Sample No.	Matrix *	Sample Date	Sample Time								
J15HV9 29501	OTHER SOLID	8-29-07	925	X							
J15HWC 29502	"	8-29-07	930	X							
CHAIN OF POSSESSION				Sign/Print Names		SPECIAL INSTRUCTIONS Laboratory Analysis, Data Management, and Shipping COA - RD4MXX1F00 Sampling COA - R32700 J451 Samples unavailable to relinquish samples from 3728 Ref # 2B 3728 Custodian removed samples for shipping on 8/30/07					
Relinquished By/Removed From <i>T.A. Lee</i>		Date/Time 8-29-07/1400		Received By/Stored In <i>3728 2B</i>						Date/Time 8-29-07/1402	
Relinquished By/Removed From <i>3728/2B</i>		Date/Time 8-30-07 0830		Received By/Stored In <i>WCH</i>						Date/Time 8-30-07/0830	
Relinquished By/Removed From <i>WCH</i>		Date/Time 8-30-07/1400		Received By/Stored In <i>FED EX</i>						Date/Time	
Relinquished By/Removed From <i>Sender</i>		Date/Time		Received By/Stored In <i>[Signature]</i>						Date/Time 8/31/07/1025	
Relinquished By/Removed From		Date/Time		Received By/Stored In						Date/Time	
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		Matrix * S=Soil SE=Soil/Element SO=Solid SL=Sludge W=Water O=Oil A=Air DS=Dry Solids DL=Dry Liquids T=Trans WI=Wipe L=Liquid V=Vegetation X=Other			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time					
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time					
LABORATORY SECTION		Received By <i>[Signature]</i>		Title		Date/Time 8/31/07/1025					
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time					